

Career and Technical Education (CTE) & Career Focused Education (CFE) K-12

#RCSCareerReady #RCSLearn #CTEMonth2023

Rochester Community Schools

Career and Technical Education (CTE) and Career Focused Education (CFE) K-12

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Ed Careers: Sarah Millard+(SCHS) **MS STEM Consultant:** Jenny Diemert (VH)

Career Counselors – Jennifer Wilson

*not voc ed certified + working on voc ed Cert



CTE BUDGET 2022-23

| | | |
|----------------------------------|----------------------|----------|
| 61A CTE Perkins Grant | \$ 207,277.79 | |
| 61D CTE Per Pupil Incentive | \$ 100,000.00 | Estimate |
| K-12 Career Readiness Allocation | \$ 267,951.00 | |
| | <u>\$ 575,228.79</u> | |

CAREER READINESS



CAREER AND TECHNICAL STUDENT ORGANIZATIONS



FIRST Robotics - For Inspiration and Recognition of Science and Technology

NTHS – National Technical Honors Society (RHS)

E- SPORTS (AHS)

COLLEGE ARTICULATION



CTE CREDENTIALS



4 COMPONENTS OF OUR CTE PROGRAM



Students enrolled in our RCS career and technical education (CTE) programs have the opportunity to learn skills that prepare them for successful career entry, advancement, and/or continuing education. Each secondary state-approved program is required to include four elements:

1 CLASSROOM INSTRUCTION



Integration of academic and technical skills to support core academic knowledge needs. Focused instruction, reinforcement, and additional depth on academic concepts that support academic skills.

2 LABORATORY LEARNING



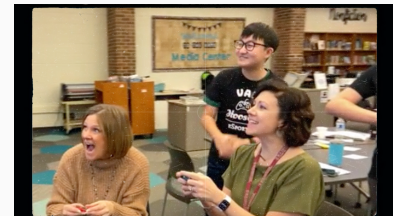
Hands-on learning to develop technical skills to support core knowledge needs. Simulation labs, project-based learning and student skill demonstration.

3 WORK-BASED LEARNING



Work-based learning opportunities to further develop and apply skills. Sustained interactions with employers in real workplace settings that foster first-hand engagement with tasks required of specific careers.

4 STUDENT LEADERSHIP



Student leadership opportunities to support employability and Career Ready Practices. Intra-curricular activities that prepare students to become effective leaders.



CTE Course Offerings



Business Department Offerings

Classes in each program are sequential and should be taken in order

To obtain maximum funding level 1 & 2 in each program must be completed

Business Admin Management and Operations (BAMO)

BAMO is a business course that provides the framework for pursuing additional business courses and entrepreneurship.

Business Functions and Operations 9-12

Small Business and Entrepreneurship (ESB) 11-12

Virtual Enterprise (PR)

Finance

This course is recommended for students with an interest in business/finance, being a business major in college, or planning to own their own business.

Accounting 1~ 10-12

Accounting 2 ~ (PR) 10-12

Account 3 (PR) 10-12

Account 4 (PR) 10-12

Virtual Enterprise (PR)

Computer Science

Prog 1 and 2 are an introduction to programming course where students will learn to write and read code in Visual BASIC and Python. Moving on to Java and C++.

Programming 1 9-12

Programming 2 (PR) 9-12

AP Computer Science A 9-12

AP Computer Science Principles 9-12

Credential offered

(ESB) Entrepreneurship and Small Business (CSB)
Communication Skills for Business
MS Office
Adobe Photoshop

Digital Multimedia

This course is intended for any student desiring exposure to business applications using Microsoft Office Suite and Adobe

Computer Operations in Business (MS Office) 9-12

Web Design and Social Media * (Adobe) 9-12

Virtual Enterprise (PR)

Marketing

Marketing and Advertising educates students on the important role that Marketing plays in our economic system, using simulations and hands on, real world projects incorporating the latest technology and practices

Marketing and Advertising 1 * (CSB) 10-12

Advanced Marketing and Advertising 2 *(PR) 10-12

Merchandising Lab (School Store) (PR)

Virtual Enterprise (PR)

Work Based Learning

Capstone is an opportunity for business students who have taken a number of business classes to use their skills and knowledge in a paid on-the-job training site.

Business Capstone (CO-OP)- 1 hr or 2 hr Block- Both Semesters (Paid) 11-12 ^

Practicum- 2 hour block- 1 semester (Unpaid) 12 only

Key

- Complete program- level 1 and 2
- Upperclassmen only- unless specified
- ~ Math Credit
- * Applied Art Credit
- PR Pre-requisite to take class
- ^ Must take a current CTE class



CTE Course Offerings



Design & Technology Offerings

Classes in each program are sequential and should be taken in order
To obtain maximum funding level 1 & 2 in each program must be completed

Engineering Technology

Program for students going into STEM careers. Students will create computer drawings, solve problems and build prototypes while applying what was learned in math and science classes.

Engineering Design 1 9-12

Engineering Design 2 9-12

Engineering Design 3 10-12

Engineering Design 4 10-12

Drafting and Design Technology

Program for students interested in buildings and architecture. Students create floor plans, and other associated drawings, students will solve problems & build models

Architecture 1 9-12

Architecture 2 9-12

Architecture 3 10-12

Architecture 4 10-12

Mechatronics

Program for students interested in STEM careers. This is a hands on class learning concepts through the use of robots; including problem solving, collaboration and communication

Robotics 1 9-12

Robotics 2 9-12

Mechanical Drafting

This class should be taken after taking Engineering 1-4. Students will design & execute projects using classroom tools & equipment

Mechanical Drafting / Design 1 10-12

Mechanical Drafting / Design 10-12

Animation: Class exposes students to a variety of animation types and styles. This class can be taken independently.

Computer Modeling & Animation 9-12

Woodworking RHS ONLY

This is a hands on STEM shop class students will learn about materials, use hand and power tools, and design & build projects.

Woodworking 1 9-12

Woodworking 2 9-12

Woodworking 3 10-12

Woodworking 4 10-12

Key

- Complete program- level 1 and 2
- Upperclassmen only- unless specified

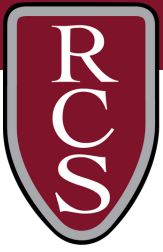


Ed Careers Offerings

Educational Careers is a one-year course designed for students interested in pursuing a career in an educational field and/or getting an inside glimpse at the world of teaching. Course runs 6th hour only.

EdCare S1 11-12

EdCare S2 11-12



Career Readiness Opportunities

2022-2023

Elementary



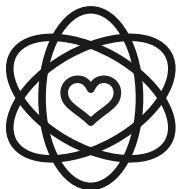
Careers in a box
Xello Targets K thru 5
Robotics
ACTON Children's Oakland County Business Fair
Eureka Lab partnership with Rochester Hills Library
Career Liaison Curriculum units - embedded into grade level classes

Middle School



STEM I - Week of January 29th
Community Learning Days in partnership with the DDA
Junior Achievement Finance Park - STEM 8 Field trip
Xello Targets 6, 7 and 8
Challenge Island STEM Day - 6th grade
NASA live link to space station
Robotics
Pathful Connect - Virtual field trips and guest speakers

High School



Xello Targets
Oakland Schools Technical Campus
PASSES Edge Safety Training - (CTE student programs only) Junior Achievement Finance Park (sponsored by Chief Financial Credit Union)- Personal Finance classes
National Technical Honors Society - RHS
RCS Job Shadow - Embedded in Comp 11.
Tech Talk with United Way Mortgage
Dr. Vu Science Partnership (Biology classes)
MHSA Woman's leadership conference

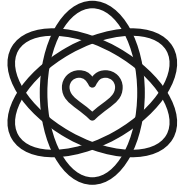
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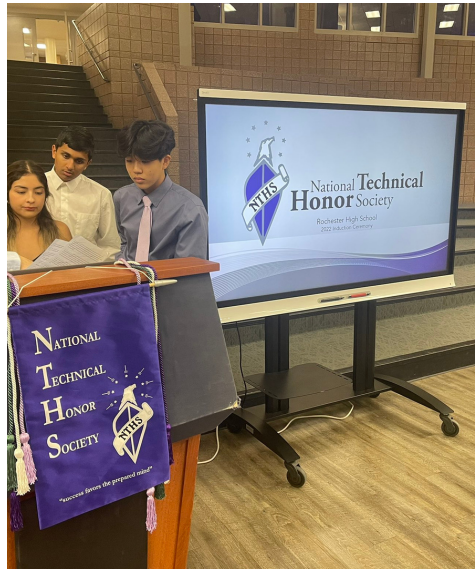
Career Readiness Opportunities

2022-2023

High School



Career and Technical Student Organizations - BPA / DECA/ MITES / Robotics / Esports
RCS Alumni day at all 3 high schools
Shark Tank - Entrepreneurship Classes
Virtual Enterprise trade shows
Career Quest Field Trip
Oakland County Manufacturers Day
Signing Days for students going into the Trades / Apprenticeships / Military partner with OTSC
Innovation lab - Central Michigan University with Prof G.
Suitup Business Competition
Detroit Economic Club Career Readiness - Dr. Shultz Campus
Dual Enrollment at OCC



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